BRUHAT BANGALORE MAHANAGARA PALIKE

MEASUREMENT SHEET

RA 1ST AND FINAL BILL

Name of work: Maintenance and Development of Park in Ward No. 09, Vidyaranyapura.

Estimated Cost : Rs. 40.00 Lakhs

Head of Account : P-2178

Name of Agency: Executive Engineer, KRIDL, # 280, 59th Cross Road, 17th C Main Road, 3rd Y Block , Rajajainagara, Bangalore - 10.

Work order No: BBMP/EE/BTP/WO/136/2018-19 Dated: 26.09.2018.

Measurements Recarded on :

Sl No.	Description of item	No	L	B	D	Qty	Rate / Unit	Amount
1	Excavation for road, drains and similar works KSRRB 300-1. Earthwork **excavation by manual means in ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.						Cum	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 1 is					**121.05**	199.36	**24133.00**
2	Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications.						Cum	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 2 is					**25.54**	5348.76	**136607.00**
3	Providing and laying **cement concrete** using 20mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., with all lead and lift etc., complete. (exculsive of cost of steel and fabrication charges) - **Ready mixed Cement concrete for Beams, Staircase and Roof with M-25**						Cum	
	For Ranghamandhira Syrrounding	2	30.00	1.00	0.10	6.00		
		2	30.00	1.00	0.10	6.00		
		2	10.00	1.00	0.10	2.00		
		1	30.00	1.00	0.10	3.00		
		1	30.00	1.00	0.10	3.00		
	Chain Link Fencing N/S	1	30.00	0.30	1.00	9.00		
		1	30.00	0.30	1.00	9.00		
		1	12.80	0.30	1.00	3.84		
	S/S	1	28.00	0.30	1.00	8.40		
	Covering Slab to SWD Canara Bank	1	24.20	3.15	0.25	19.06		
		2	4.80	2.00	0.25	4.80		
	Total Qty					**74.10**		
	Qty Limited approved Qty					**74.00**		245648.26
	Qty upto 125%					**38.21**	6428.90	**245664.00**
	Qty Above 125%					**35.79**	5770.64	**206517.00**

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Sl No.	Description of item	No	L	B	D	Qty	Rate / Unit	Amount
4	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. **TMT bars Fe 500**						Tonne	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 3 is					**8.52**		294877.29
	Qty upto 125%					**4.59**	64243.42	**294717.00**
	Qty Above 125%					**3.92**	75223.96	**294878.00**
5	Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface such as walls at any thickness**, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.						Sqm	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 4 is					**285.00**		65252.85
	Qty upto 125%					**210.80**	310.58	**65470.00**
	Qty Above 125%					**74.20**	379.48	**28157.00**
6	Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6, stone** hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.						Cum	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 5 is					**29.40**	4438.22	**130484.00**
7	KSRB 5.3-3 : Providing and constructing granite / trap / basalt size stone masonry in **basement with cement mortar 1:6**, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.						Cum	
	Repair of SSM Wall Chain Link Fencing E/S	1	30.00	0.45	0.70	9.45		
		1	30.00	0.45	0.70	9.45		
		1	10.00	0.45	0.70	3.15		
						22.05	5305.30	**116982.00**
8	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications						Sqm	
	Repair of SSM Wall Chain Link Fencing E/S	2	30.00		0.90	54.00		
		2	30.00		0.90	54.00		
		2	10.00		0.90	18.00		
	Poinitng to SSM Wall to SWD Canara Bank	2	24.60		0.90	44.28		
		2x2	4.80		0.90	17.28		
	Total Qty					**187.56**		
	Qty Limited approved Qty					**180.00**	103.88	**18698.00**
9	Providing and laying in position **plain cement concrete of mix 1:2:4** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation, plinth and cills**, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.							

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Sl No.	Description of item	No	L	B	D	Qty	Rate / Unit	Amount
	Repair of SSM Wall Chain Link Fencing E/S	1	30.00	0.45	0.10	3.00	1.35	
		1	30.00	0.45	0.10	3.00	1.35	
		1	10.00	0.45	0.10	1.00	0.45	
	Poinitng to SSM Wall to SWD Canara Bank	1	24.60	2.00	0.10	4.92		
		2	4.80	2.00	0.10	1.92		
	Total Qty					**13.84**		
	Qty Limited approved Qty					**13.00**		
	Qty upto 125%					**9.00**	5767.46	**51907.00**
	Qty Above 125%					**4.00**	5747.32	**22989.00**
10	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)						Mts	
	For Chain Link Fenicing	30	3.00			90.00		
		30	3.00			90.00		
		12	3.00			36.00		
		16	3.00			48.00		
	Total Qty					**264.00**		
	Qty Limited approved Qty					**262.50**		
	Qty upto 125%					**141.75**	868.14	**123059.00**
	Qty Above 125%					**120.75**	910.54	**109948.00**
11	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint.						Rmt	
	For Chain Link Fenicing E/S	3	30.00			90.00		
		3	30.00			90.00		
		3	10.00			30.00		
	N/S	3	30.00			90.00		
		3	30.00			90.00		
		3	12.80			38.40		
	W/S	3	28.00			84.00		
		3	5.00			15.00		
	Total Qty					**527.40**		
	Qty Limited approved Qty					**525.00**	343.44	**180306.00**
12	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint						Sqm	
	For Chain Link Fenicing E/S	1	30.00		2.40	72.00		

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Sl No.	Description of item	No	L	B	D	Qty	Rate / Unit	Amount
		1	30.00		2.40	72.00		
		1	10.00		2.40	24.00		
	N/S	1	30.00		2.40	72.00		
		1	30.00		2.40	72.00		
		1	12.80		2.40	30.72		
	W/S	1	28.00		2.40	67.20		
	S/S	1	30.00		2.40	72.00		
		1	18.00		2.40	43.20		
	Total Qty					**525.12**		
	Qty Limited approved Qty					**525.00**		
	Qty upto 125%					**480.00**	698.54	**335299.00**
	Qty Above 125%					**45.00**	757.90	**34106.00**
13	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation.						Sqm	
		1	3.50	1.80		6.30		
		1	1.20	1.50		1.80		
						8.10	3110.04	**25191.00**
14	Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density)						Cum	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 6 is					**60.00**	320.12	**19207.00**
15	**Sand Filling** in Foundation Trenches as per Drawing & Technical Specification						Cum	
	Qty as per Premeasurement Recorded vide E-Bill Page No. 7 is					**66.00**	2922.42	**192880.00**
16	Providing Granite Benches						Nos	
		5				**5**	10000.00	**50000.00**
	EIRL							
E1	Providing, fabricating and fixing special multiplay sustems consists of FRP moulded with aluminium chequered platforms of size 5' x 5' ft with 4 support piller madeour of 75 mm dia G I B Pipes fixed in cement concrete 1:2:4 the flatfomrs are to be covered with tubular slide & mini asuva tunnel slide made up of high quality DRP the slide is to fixed at as height of 11 ft using M S Pipes support at refular intervals of 6ft using M S 25 mm dia pipes with suitable hand rails and steps made out of GFI sheet with tred 4 " with poder coated finishi fine quality ERP with suitable design and as per desing moulded FPR slides are non-corrossive fade free toufh grade durable hard and should prevent UV light the work should be executed as per the standard specifications and direction of the engineer in charge of the work							
		1				**1**	595000.00	**595000.00**

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Sl No.	Description of item	No	L	B	D	Qty	Rate / Unit	Amount
E2	Providing, fabricating and fixing special multiplay sustems consists of flatform with 65 mm dia MS pipe & aluminium chequered plates of size 3 x 3 ft fixed at 5 ft hight from ground level with 4 legs made out of 65 mm dia GI B pipes fixed cement concrre 1:2:4 the flatfomrs are to be covered with tubular slide & mini asuva tunnel slide made up of high quality DRP the slide is to fixed at as height of 11 ft using M S Pipes support at refular intervals of 6ft using M S 25 mm dia pipes with suitable hand rails and steps made out of GFI sheet with tred 4 " with poder coated finishi fine quality ERP with suitable design and as per desing moulded FPR slides are non-corrossive fade free toufh grade durable hard and should prevent UV light the work should be executed as per the standard specifications and direction of the engineer in charge of the work							
		1				1	180000.00	**180000.00**
E3	Providing and fixing children play bridge with M.S perforated trnnel wave bridge Arch bridge & hanging bridge made out of MS pipe s and chequered plates uns for a height 11 ft to 5 ft the work should be executed as per the standard specidication and direcction of the engineer in charge odwork with all lead and lift loading and unloading and aby incidental charges required for the successful complete of all works (all swings chains are rubber coated and all 's' hooks are stainless steel) work completion certificate for having made out of GFI sheet with tred 4 " with poder coated finishi fine quality with suitable design and as per desing moulded hard and should prevent UV light the work should be executed as per the standard specifications and direction of the engineer in charge of the work							
		1				1	120000.00	**120000.00**
	Sub Total						3602139	**3602199.00**
	KRIDL Charges @ 10%						360214	**360220.00**
	Labour Cess @ 1%						36021	**36022.00**
							3998374 Total	**3998441.00**

Rupees Thirty Nine Lakh(s) Ninety Eight Thousand Four Hundred Forty One Only 3998370

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Ward No. 09

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